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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Electronic commerce: a half-empty glass?](#)

Sasa Dekleva

June 2000 **Communications of the AIS**

Full text available: [pdf\(343.49 KB\)](#)

Additional Information: [full citation](#), [references](#)

3 [Rover: a toolkit for mobile information access](#)

A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5

Full text available: [pdf\(2.18 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [Level II technical support in a distributed computing environment](#)

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available: [pdf\(5.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

5 [Internet Privacy Enhanced Mail](#)

Stephen T. Kent

August 1993 **Communications of the ACM**, Volume 36 Issue 8

Full text available: [pdf\(4.82 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Internet Privacy Enhanced Mail

6 [Reusable software components](#)

Trudy Levine

July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4

Full text available: [pdf\(2.45 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

7 [On secure and pseudonymous client-relationships with multiple servers](#)

Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4

Full text available:  [pdf\(161.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same time, each interaction preserves privacy by neither ...

Keywords: Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

8 [Professional ethics in information systems: a personal perspective](#)

Robert M. Davison

April 2000 **Communications of the AIS**

Full text available:  [pdf\(186.13 KB\)](#)

Additional Information: [full citation](#), [references](#)

9 [CHI 96: a preview](#)

Peter Stevens


January 1996 **ACM SIGCHI Bulletin**, Volume 28 Issue 1

Full text available:  [pdf\(1.58 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

10 [A component model for standardized web-based education](#)

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(384.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


We present a layered component model to support Web-based collaborative applications. We show how this model lets programmers focus on the particular logic of their applications, avoiding most of the issues related to collaboration, access control, and network management. The proposed model is organized into three layers on top of a foundation composed of commercial-off-the-shelf services and standard Internet protocols. The service level provides a network-transparent communications layer, data ...

Keywords: authoring tools, collaborative systems, educational web applications, learning technology standardization, web-based course delivery systems

11 [A component model for standardized web-based education](#)

L. Anido-Rifón, M. Llamas-Nistal, M. J. Fernández-Iglesias

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  [pdf\(406.37 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Learning technology standardization, Web-based course delivery systems, authoring tools, collaborative systems, educational web applications, learning technology, practice and experience

12 [Modeling personnel and roles for electronic commerce retail](#)

Simon Fong, Chan Se-Leng

April 2000 **Proceedings of the 2000 ACM SIGCPR conference on Computer personnel research**

Full text available:  [pdf\(564.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Most of the electronic commerce businesses have to address the same issues such as the four core business activities namely Attract, Interact, Act and React. The success of an E-Commerce business hinges on how competent the personnel who operate the four activities are. In this paper, we identify the job functions of the personnel for a typical Internet retail. In particular, we present an object-oriented model of the personnel specialized for Internet-base ...

Keywords: UML, electronic commerce, personnel modeling

13 [Nomadic radio: scaleable and contextual notification for wearable audio messaging](#)

Nitin Sawhney, Chris Schmandt

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Full text available:  [pdf\(1.62 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Mobile workers need seamless access to communication and information services on portable devices. However current solutions overwhelm users with intrusive and ambiguous notifications. In this paper, we describe scaleable auditory techniques and a contextual notification model for providing timely information, while minimizing interruptions. Users actions influence local adaptation in the model. These techniques are demonstrated in Nomadic Radio, an audio-only wearable computing platf ...

Keywords: adaptive interfaces, auditory I/O, interruptions, notifications, passive awareness, wearable computing

14 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity

Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available:  [pdf\(502.20 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

Keywords: electronic commerce, formal language for business communication, speech act theory

15 A Multimedia Enhanced CSCW Teleservice for Wide Area Cooperative Authoring of Multimedia Documents

Heiko Thimm

December 1994 **ACM SIGOIS Bulletin**, Volume 15 Issue 2


Full text available:  [pdf\(872.72 KB\)](#)

Additional Information: [full citation](#)

16 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world

Marjory S. Blumenthal, David D. Clark

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available:  [pdf\(176.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

17 Intranets and organizational learning

Michael G. Harvey, Jonathan Palmer, Cheri Speier

April 1997 **Proceedings of the 1997 ACM SIGCPR conference on Computer personnel research**

Full text available:  [pdf\(956.81 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

18 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available:  [pdf\(233.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

19 Atomicity in electronic commerce

J. D. Tygar

May 1996 **Proceedings of the fifteenth annual ACM symposium on Principles of distributed computing**

Full text available:  [pdf\(1.74 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 Nomadic radio: speech and audio interaction for contextual messaging in nomadic environments

Nitin Sawhney, Chris Schmandt

September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3

Full text available:  [pdf\(648.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Mobile workers need seamless access to communication and information services while on the move. However, current solutions overwhelm users with intrusive interfaces and ambiguous notifications. This article discusses the interaction techniques developed for Nomadic Radio, a wearable computing platform for managing voice and text-based messages in a nomadic environment. Nomadic Radio employs an auditory user interface, which synchronizes speech recognition, speech synthesis, nonspeech audio ...

Keywords: adaptive interfaces, contextual interfaces, interruptions, nonspeech audio, notifications, passive awareness, spatial listening, speech interaction, wearable computing

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